

FILE NOTATIONS

Entered In NID File

Entered On S R Sheet

Location Map Pinned

Card Indexed

IWR for State or Fee Land

Checked by Chief

Copy NID to Field Office

Approval Letter

Disapproval Letter

COMPLETION DATA:

Date Well Completed

OW _____ WW _____ TA _____

GW _____ OS _____ PA X

Location Inspected

Bond released

State of Fee Land

LOGS FILED

Driller's Log

Electric Logs (No.)

E _____ I _____ E-I ✓ GR _____ GR-N _____ Micro _____

Lat _____ Mi-L _____ Sonic _____ Others _____

Contact Capase, Fay
Radiactivity Log

(SUBMIT IN TRIPLICATE)

Indian Agency Navajo

	X	
	16	

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Allottee Tribal

Lease No. 14-20-603-235

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL	<input checked="" type="checkbox"/>	SUBSEQUENT REPORT OF WATER SHUT-OFF	
NOTICE OF INTENTION TO CHANGE PLANS		SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF		SUBSEQUENT REPORT OF ALTERING CASING	
NOTICE OF INTENTION TO REDRILL OR REPAIR WELL		SUBSEQUENT REPORT OF REDRILLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE		SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO PULL OR ALTER CASING		SUPPLEMENTARY WELL HISTORY	
NOTICE OF INTENTION TO ABANDON WELL			

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

December 22, 19 59

Well No. North Boundary Butte 2 is located 1980 ft. from [N] line and 1980 ft. from [W] line of sec. 16

<u>SE NW 16</u> (¼ Sec. and Sec. No.)	<u>42 S</u> (Twp.)	<u>22 E</u> (Range)	<u>S.L.B.M.</u> (Meridian)
<u>Wildcat</u> (Field)	<u>San Juan</u> (County or Subdivision)	<u>Utah</u> (State or Territory)	

The elevation ~~of the design flow above sea level~~ is 4934 ft. (approx. ground)

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

1. Drill 12-1/4" hole to 600'.
2. Run and cement 8-5/8", 28#, J-55 casing at 600' with 350 sacks cement, last 200 sacks treated with calcium chloride (circulated).
3. Drill 7-7/8" hole to 5800' (objective Paradox and Lower Hermosa).
4. If commercial production is obtained a supplementary completion notice will be issued.

Surface Formation is Jurassic - Glen Canyon Group

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company Shell Oil Company

Address Post Office Box 158

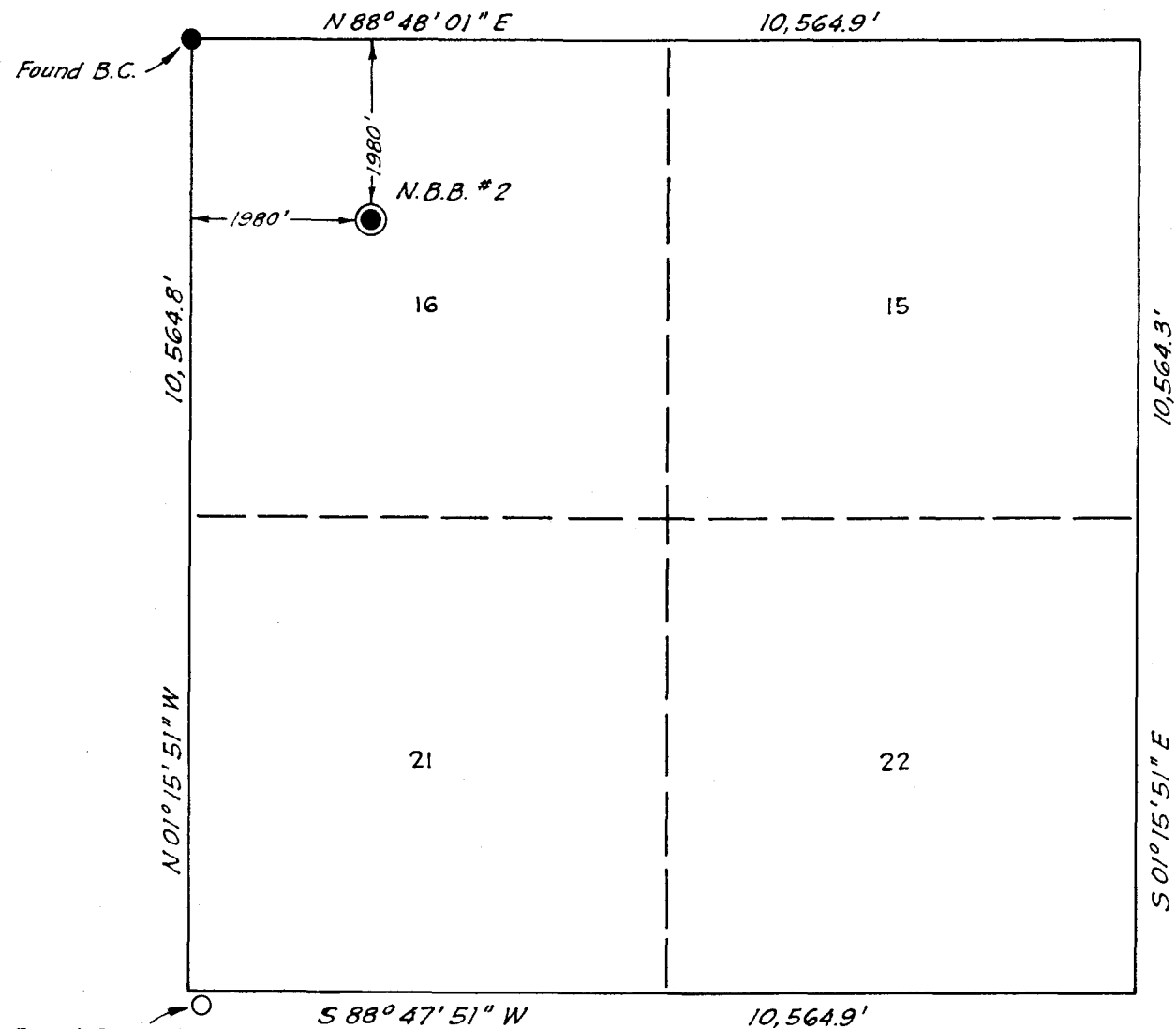
Farmington, New Mexico

Original signed by
B. W. SHEPARD

By _____

B. W. Shepard
Title Exploitation Engineer

TRACT NO. 44



Found Rock Pile
w/ No B.C.

Elev.'s.
Un.G. 4934
G.G. _____
D.F. _____
K.B. _____

This is to certify that the above plat was plotted from field notes of a survey made under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Blaine H. Fitzgerald
Registered Land Surveyor

Certificate No. L.S. #2334

DRAWN BY R.J.C.
CHECKED BY _____
DATE Dec. 21, 1959

SHELL OIL COMPANY

SCALE 1" = 2000'

Z-

LOCATION OF NORTH BOUNDARY BUTTE - 2
San Juan County, Utah, Tract 44, Sec. 16, T. 42 S., R. 22 E.

December 23, 1959

Shell Oil Company
P. O. Box 158
Farmington, New Mexico

Attention: B. W. Shepard,
Exploitation Engineer

Gentlemen:

This is to acknowledge receipt of your notice of intention to drill Well No. North Boundary Butte 2, which is to be located 1980 feet from the north line and 1980 feet from the west line of Section 16, Township 42 South, Range 22 East, S1E4, San Juan County, Utah.

Please be advised that insofar as this office is concerned approval to drill said well is hereby granted.

This approval terminates within 90 days if the above mentioned well is not spudded in within said period.

Yours very truly,

OIL & GAS CONSERVATION COMMISSION

CLEON B. FREIGHT
EXECUTIVE SECRETARY

CBF:co

cc: P. T. McGrath, Dist. Eng.
U. S. Geological Survey
Farmington, New Mexico

(SUBMIT IN TRIPLICATE)

Indian Agency Navajo

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Allottee Tribal

Lease No. 14-50-603-525

X		
	16	

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL		SUBSEQUENT REPORT OF WATER SHUT-OFF	
NOTICE OF INTENTION TO CHANGE PLANS		SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF		SUBSEQUENT REPORT OF ALTERING CASING	
NOTICE OF INTENTION TO REDRILL OR REPAIR WELL		SUBSEQUENT REPORT OF REDRILLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE		SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO PULL OR ALTER CASING		SUPPLEMENTARY WELL HISTORY	
NOTICE OF INTENTION TO ABANDON WELL	X		

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

February 3

19 60

North Boundary Note

Well No. 2 is located 1980 ft. from N line and 1980 ft. from W line of sec. 16

SE 1/4 16

(1/4 Sec. and Sec. No.)

42 S

(Twp.)

22 E

(Range)

S. L. R. M.

(Meridian)

Wildcat

(Field)

San Juan

(County or Subdivision)

Utah

(State or Territory)

Kelly Bunking

The elevation of the ~~corner~~ top above sea level is 4932 ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

Status: Total Depth 3925'

Casings: 8-5/8" @ 1091'

Hole Size: 7-7/8" from 1091' to total depth

Proposed Work:

1. With open end drill pipe plug as follows:

a. 30 sacks cement 3020-3120

b. 60 sacks cement 4000-4300

c. 60 sacks cement 1820-2000

d. 50 sacks cement 991-1191

2. Feel for top plug, recement if not above 991'.

3. Install marker with 10 sacks cement plug at surface.

NOTE: Verbal approval to abandon was given by E. J. Shoager, U.S.G.S., to J. D. McLaughry.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company Shell Oil Company

Address P. O. Box 158

Farmington, N.M.

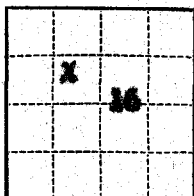
Original signed by
R. S. Mac ALISTER, JR.

By R. S. MacAlister, Jr.

Title Division Exploitation Engineer

(SUBMIT IN TRIPLICATE)

Indian Agency Nevada



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Allottee Tribal

Lease No. 14-20-603-215

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL	SUBSEQUENT REPORT OF WATER SHUT-OFF	
NOTICE OF INTENTION TO CHANGE PLANS	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF	SUBSEQUENT REPORT OF ALTERING CASING	
NOTICE OF INTENTION TO REDRILL OR REPAIR WELL	SUBSEQUENT REPORT OF REDRILLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE	SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO PULL OR ALTER CASING	SUPPLEMENTARY WELL HISTORY	X
NOTICE OF INTENTION TO ABANDON WELL		

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

February 3, 1960

North Boundary Butte
Well No. 2 is located 1900 ft. from N line and 1900 ft. from E line of sec. 16
SE NW 16 42 S 22 E S.L.R.M.
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)
Wildcat San Juan Utah
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is 4902 ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

TEST #1 **5050-5640 (Straddle) Initial shut in 30 minutes, open 2 hrs., final shut in 2 hrs., work to moderate blow throughout test. Recovered 1707' (16.5 mile.) salt water. ISIP 1990, IWP 210, WFP 908, FUIP 1900, HP 2900.**

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company Shell Oil Company

Address P. O. Box 108

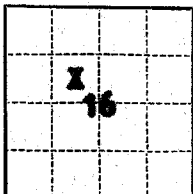
Farmington, N.M.

Original signed by
R. S. Mac ALISTER, JR.

By R. S. MacAlister, Jr.
Title Division Exploitation Engineer

(SUBMIT IN TRIPLICATE)

Indian Agency NEW VIO-JV



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Allottee Tribal

Lease No. 14-20-603-235

[Handwritten signature]

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL	SUBSEQUENT REPORT OF WATER SHUT-OFF	
NOTICE OF INTENTION TO CHANGE PLANS	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF	SUBSEQUENT REPORT OF ALTERING CASING	
NOTICE OF INTENTION TO REDRILL OR REPAIR WELL	SUBSEQUENT REPORT OF REDRILLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE	SUBSEQUENT REPORT OF ABANDONMENT	X
NOTICE OF INTENTION TO PULL OR ALTER CASING	SUPPLEMENTARY WELL HISTORY	
NOTICE OF INTENTION TO ABANDON WELL		

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

February 16, 1960

North Boundary Butte
Well No. 2 is located 1980 ft. from N line and 1980 ft. from W line of sec. 16

SE NW 16 42E 22E SLRM
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)
Wildcat San Juan Utah
(Field) (County or Subdivision) (State or Territory)

Kelly Bushing
The elevation of the ~~abandonment~~ above sea level is 4902 ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

Abandonment Work

- With open and drill pipe plugged as follows:
 - 30 sacks cement 5020-5120
 - 60 sacks cement 4000-4200
 - 60 sacks cement 1850-2050
 - 50 sacks cement 980-1191
- Located top plug at 980'.
- Installed marker with 10 sack cement plug at surface.
Abandoned 2-4-60.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company Shell Oil Company

Address Post Office Box 158

Farmington, New Mexico

Original signed by
B. W. SHEPARD

By B. W. Shepard

Title Exploitation Engineer

34

Budget Bureau No. 42-R714.4.
Approval expires 12-31-60.

ALLOTTEE ----- Tribal
TRIBE ----- Navajo
LEASE NO. ----- 14-20-603-235

State Utah County San Juan Field Wildcat - North Boundary Butte

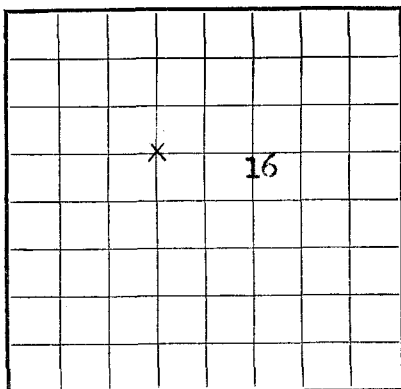
Agent's address Post Office Box 158 Company Shell Oil Company
Farmington, New Mexico Signed Original signed by
R. W. SHEPARD

Phone Davis 5-3811 Agent's title Exploitation Engineer

NOTE.—There were No runs or sales of oil; No M. cu. ft. of gas sold;
No runs or sales of gasoline during the month. (Write "no" where applicable.)

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

Tribal Lands
U. S. LAND OFFICE
SERIAL NUMBER 14-20-603-235
LEASE OR PERMIT TO PROSPECT



LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company Shell Oil Company Address P. O. Box 158 Farmington, New Mexico
Lessor or Tract North Boundary Butte Field Wildcat State Utah
Well No. 2 Sec. 16 T. 42S R. 22E Meridian SLM County San Juan
Location 1980 ft. N. of N Line and 1980 ft. E. of W Line of Sec. 16 Elevation 4920 KB
(Derrick floor relative to sea level)

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed

Original signed by
B. W. SHEPARDDate March 23, 1960Title Division Exploitation Engineer

The summary on this page is for the condition of the well at above date.

Commenced drilling January 2, 1960 Finished drilling February 1, 1960

OIL OR GAS SANDS OR ZONES

NONE (Denote gas by G)

No. 1, from _____ to _____ No. 4, from _____ to _____
No. 2, from _____ to _____ No. 5, from _____ to _____
No. 3, from _____ to _____ No. 6, from _____ to _____

IMPORTANT WATER SANDS

No. 1, from _____ to _____ No. 3, from _____ to _____
No. 2, from _____ to _____ No. 4, from _____ to _____

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated		Purpose
							From—	To—	
8 5/8	23	8	Nat'l	1075	Baker	-	-	-	Surface

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
8 5/8	1086	600	Displacement	-	-

PLUGS AND ADAPTERS

Heaving plug—Material _____ Length _____ Depth set _____
Adapters—Material _____ Size _____

SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out
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SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out

TOOLS USED

Rotary tools were used from 0 feet to 5925 feet, and from - feet to - feet

Cable tools were used from - feet to - feet, and from - feet to - feet

Plugged and Abandoned

DATES

February 4, 1960

Put to producing _____, 19____

The production for the first 24 hours was _____ barrels of fluid of which _____% was oil; _____% emulsion; _____% water; and _____% sediment. Gravity, °Bé. _____

If gas well, cu. ft. per 24 hours _____ Gallons gasoline per 1,000 cu. ft. of gas _____

Rock pressure, lbs. per sq. in. _____

EMPLOYEES

_____, Driller Brinkerhoff Drilling Co., Driller
_____, Driller _____, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
1648	1741	93	Shinarump
1741	1930	189	Moenkopi
1930	4068	2138	Cutler
4068	5066	998	Hermosa
5066	5666	600	Paradox
5666	5906	240	Lower Hermosa
5906	-		Molas

[OVER]

16-43094-4

FORMATION RECORD—CONTINUED

NOV 2 1960

DITCH SAMPLES

Examined by Shepard 4600 to 4895
and Swarbrick to

Well North Boundary Butte 2
Field or Area North Boundary Butte
not

FROM	TO	%	SHOWS UNDERLINED	SAMPLES/ LAGGED
4600	4615	100	<u>Limestone</u> , medium brown gray, I-III VF-FA, minor chert	
4615	4630	100	<u>Limestone</u> , medium light gray to shite, common clear to light brown chert	
4630	4640	80	<u>Limestone</u> , as above	
		20	<u>Shale</u> , medium to dark gray, brittle, calcareous	
4640	4645	60	<u>Limestone</u> , as above	
		40	<u>Shale</u> , dark olive gray, calcareous	
4645	4650	40	<u>Limestone</u> , as above	
		60	<u>Shale</u> , as above	
4650	4660	60	<u>Limestone</u> , medium to dark brown gray, I-III VF-FA	
		40	<u>Shale</u> , medium brown to light gray, brittle to soft	
4660	4670	20	<u>Limestone</u> , as above	
		80	<u>Shale</u> , as above	
4670	4675	50	<u>Limestone</u> , as above	
		50	<u>Shale</u> , as above	
4675	4685	20	<u>Limestone</u> , as above	
		80	<u>Shale</u> , as above	
4685	4695	100	<u>Limestone</u> brown - light gray, I-III VF-FA, scattered sand and clear chert	
4695	4705	80	<u>Limestone</u> , as above	
		20	<u>Shale</u> , as above light gray	
4705	4715	100	<u>Limestone</u> , as above medium brown chert	
4715	4725	60	<u>Limestone</u> , as above	
		40	<u>Shale</u> , as above dark gray to black	
4725	4735	90	<u>Limestone</u> , as above brown - gray III VF-FA	
		10	<u>Shale</u> , as above	
4735	4750	100	<u>Limestone</u> , as above I-III VF-FA orange chert	
4750	4755	80	<u>Limestone</u> , as above	
		20	<u>Shale</u> , as above, dark gray to black	
4755	4760	60	<u>Limestone</u> dark olive gray I-III VF-FA, sand grains	
		40	<u>Shale</u> dark gray - black	
4760	4765	40	<u>Limestone</u> , as above	
		60	<u>Shale</u> , as above	
4765	4775	50	<u>Limestone</u> , as above	
		50	<u>Shale</u> , as above	
4775	4785	20	<u>Limestone</u> , as above	
		80	<u>Shale</u> , as above	
4785	4800	40	<u>Limestone</u> , as above	
		60	<u>Shale</u> , as above	
4800	4805	80	<u>Limestone</u> white, III, brown chert	
		20	<u>Shale</u> , as above	
4805	4830	100	<u>Limestone</u> , as above	
4830	4840	70	<u>Limestone</u> white - light gray III FA, abundant chert	
		30	<u>Shale</u> , as above dark gray	
4840	4855	80	<u>Limestone</u> , as above	
		20	<u>Shale</u> , as above	
4855	4860	100	<u>Limestone</u> , as above	
4860	4870	80	<u>Limestone</u> , as above	
		20	<u>Shale</u> , as above dark gray	
4870	4875	20	<u>Limestone</u> , as above	
		80	<u>Shale</u> , as above	
4875	4895	80	<u>Limestone</u> , as above	
		20	<u>Shale</u> , as above	

WEEK ENDING January 23, 1960

SHELL OIL COMPANY

CORE FROM 5095 TO 5120.5

CORE RECORD

AREA OR FIELD WildcatCOMPANY ShellCORES EXAMINED BY J. D. McLehaney, Jr.LEASE AND WELL NO. N. BoundaryButte 2

NO.	FROM	TO	RECOVERED	FORMATIONAL, STRUCTURAL AND PROBABLE PRODUCTIVITY DESCRIPTION OF CORE	SYMBOL	OBSERVED DIP	CORE INDICATIONS OIL-GAS
							CORE OR DITCH
1	5095	5131	24.5'	<u>Limestone</u> , light brown-gray IVF-FA, scattered brachs.			
	5095	5097		<u>Limestone</u> , as above, abundant fusilinids, brachs, bryozoa, crinoids			
	5097	5098		<u>Limestone</u> , as above, rare fusilinids, brachs, bryozoa, crinoids			
	5098	5101		<u>Limestone</u> , as above, IVFA, spotty fluorescence along fractures, no visible staining, no porosity			
	5101	5103		<u>Limestone</u> , as above, fluorescence along fractures, visible oil stains along fractures, no visible porosity, core badly fractured, strong sweet gas odor, bleeding small amounts of oil.			Oil on fractures
	5103	5104		<u>Limestone</u> , as above, scattered brachs with thin interbedded shale, black, silty, calcareous.			
	5104	5105		<u>Limestone</u> , as above, dark brown-gray, argillaceous, scattered brachs.			
	5105	5106		<u>Shale</u> , black silty, calcareous, scattered brachs and crinoids			
	5106	5109		<u>Shale</u> , as above, very calcareous			
	5109	5110		<u>Limestone</u> , medium brown-gray, IVFA, slightly argillaceous, scattered fusilinids, brachs and crinoids			
	5110	5111		<u>Limestone</u> , as above, scattered oolites, spotty fluorescence along fractures, no visible staining, no porosity			
	5111	5112		<u>Limestone</u> , as above, IVFA-B, estimated 3% porosity, oolitic, fossiliferous, spotty staining, spotty fluorescence, fair sweet gas odor			Spotty staining
	5112	5113		<u>Limestone</u> , as above, IVFA, scattered oolites, rare fusilinids.			
	5113	5114		<u>Limestone</u> , as above, with thin interbedded shale, black, silty, calcareous.			
	5114	5115		<u>Limestone</u> , as above, IVF-FA			
	5115	5118		<u>Limestone</u> , as above, scattered brachs			
	5118	5119		<u>Limestone</u> , as above,			
	5119	5120.5					

SYMBOLS: C-CLAY OR SHALE (SAND 0-5%). 1-CLAY OR SHALE WITH SAND STREAKS (SAND 5-25%). 2-CLAY OR SHALE AND SAND (SAND 25-60%). 3-SAND WITH SHALE STREAKS (SAND 60-90%). S-SAND (90-100%).

NOTE: SHOW FLUID CONTENT AS IN STANDARD LEGEND.

SHELL OIL COMPANY

North Boundary Butte
WELL NO. 2

DRILLING REPORT
FOR PERIOD ENDING

16

(SECTION OR LEASE)
T. 42 S., R. 22 E.
(TOWNSHIP OR RANCHO)

Wildcat

(FIELD)

San Juan, Utah
(COUNTY)

2-2-60

DAY	DEPTHS		REMARKS
	FROM	TO	
			Location: 1980' S and 1980' E of NW corner Sec. 16, T. 42 S., R. 22 E., SLBM, San Juan County Utah.
			Elevations: DF 4918.7, GR 4909.5', KB 4920.2'.
1-2 To 1-4	0	1160	Spudded 5:00 A.M. 1-2-60. Ran and cemented (1075') 8-5/8", 28#, J-55 casing at 1086' with 600 sacks cement, last 100 sacks treated with 2% calcium chloride. Good returns to surface. Flanged up and waited on cement. Pressure tested casing and BOP with 700 psi, OK. Waited 6 hrs. on new kelly swivel.
1-5 To 1-19	1160	5095	<u>Drilled 4935'</u>
1-20 To 1-22	5095	5160	<u>Cored 65'</u> . Core #1 5095-5131 Recovered 24-1/2'. Core #2 5131-5160 Recovered 29'.
1-23 To 1-25	5160	5547	<u>Drilled 387'</u> .
1-26 To 1-27	5547	5655	<u>Drilled 54'</u> . <u>Cored 54'</u> . Core #3 5570-5624 Recovered 54'.
1-28	5655	5767	<u>Drilled 112'</u> .
1-29	5767	5786	<u>Drilled 3'</u> . <u>Cored 16'</u> . Core #4 5770-5786 Recovered 15'.
1-30 To 1-31	5786	5831	<u>Cored 45'</u> . Core #5 5786-5809 Recovered 19', Core #6 5809-5831 Recovered 17'.
2-1 To 2-2	5831	5925 TD	<u>Drilled 94'</u> . Attempted to run Induction Electrical Survey; stopped at 11400'. Cleaned out bridge. Ran Induction Electrical Survey, Contact Caliper and Gamma Ray-Neutron Logs.

CONDITION AT BEGINNING OF PERIOD

HOLE			CASING SIZE	DEPTH SET
SIZE	FROM	TO		
DRILL PIPE SIZES				

G. E. Dawsongrove

SIGNED

SHELL OIL COMPANY

North Boundary Butte
WELL NO. 2

Wildcat

DRILLING REPORT
FOR PERIOD ENDING

16

(FIELD)
San Juan, Utah

2-4-60

(SECTION OR LEASE)
T. 42 S., R. 22 E.
(TOWNSHIP OR RANCHO)

(COUNTY)

DAY	DEPTHS		REMARKS
	FROM	TO	
2-3	5925 TD		DST#1 5550-5648 (Straddle). Paradox, TP Zone. Halliburton Testers used four 6-3/4" ESA packers at 5546, 5550 and 5648, 5652. No air cushion. Four pressure recorders, Kuster BT (out) at 5633', Kuster BT out at 5638', Kuster BT (out) at 5643 and PRD (paper chart) at 5674', 3/4" subsurface bean and 1" surface bean, perforations 5550-67 and 5638-43. Initial shut-in 30 minutes, tool open 2 hrs., Final shut-in 2 hrs., Weak blow increasing to steady good blow for duration of test; Recovered: 1707' (16.5 bbls.) total fluid including 180' (2 bbls.) watery mud and 1527' (14.5 bbls.) slightly muddy, slightly gassy salt water. Minimum salinity 3400 ppm NaCl(r). Maximum salinity 65,000 ppm NaCl(r). ISIP 1988, IFP 217, FFP 912, FSIP 1907, HP 2885/2835.
2-4			Plugged as follows: 30 sacks cement 5020-5120 60 sacks cement 4000-4200 60 sacks cement 1850-2050 75 sacks cement 980-1191 Located top of top plug 980' Released Rig 12:00 midnight 2-4-60, abandoned. Mud Summary wt. 9.1-9.6 #/gal. vis. 32-50 sec. WL 5-18 cc FC 2/32" PH 7.3-8 Contractor: Brinkerhoff Drilling Co. Co. Pusher: C. L. Christiansen

CONDITION AT BEGINNING OF PERIOD

HOLE			CASING SIZE	DEPTH SET
SIZE	FROM	TO		
12-1/4"	0	1160	8-5/8"	1086'
7-7/8"	1160	5925		
DRILL PIPE SIZES 4-1/2"				

G. E. Dawsongrove

SIGNED

DITCH SAMPLES

Examined by Shepard & Swarbrick 4895 to 5010
McLehane 5010 to 5080
 McLehane & Swarbrick 5080 to 5215

Well North Boundary Butte 2
 Field or Area North Boundary Butte
 not

FROM	TO	%	SHOWS UNDERLINED	SAMPLES/LAGGED
4895	4900	40	<u>Limestone</u> , as above	
		60	<u>Shale</u> , as above	
4900	4905	90	<u>Limestone</u> , white - brown gray, I-III VF-FA, chert	
		10	<u>Shale</u> , as above	
4905	4910	80	<u>Limestone</u> , white - brown gray I-III VF-FA, chert	
		20	<u>Shale</u> , dark gray	
4910	4920	100	<u>Limestone</u> , as above	
4920	4925	80	<u>Limestone</u> , as above	
		20	<u>Shale</u> , dark gray	
4925	4930	40	<u>Limestone</u> , as above	
		60	<u>Shale</u> , as above	
4930	4940	70	<u>Limestone</u> , as above	
		30	<u>Shale</u> , as above	
4940	4950	40	<u>Limestone</u> , as above	
		60	<u>Shale</u> , as above	
4950	4965	50	<u>Limestone</u> , as above, <u>possible trace fluorescence and cut fluorescence</u> , very	
		25	<u>Shale</u> , as above	weak
		25	<u>Chert</u> , light brown, opaque	
4965	4990	70	<u>Limestone</u> , as above, <u>possible trace fluorescence and cut fluorescence</u> , very	
		10	<u>Shale</u> , as above	weak
		20	<u>Chert</u> , as above	
4990	4995	70	<u>Limestone</u> , white, III A, <u>possible trace fluorescence and cut fluorescence</u> ,	
		20	<u>Shale</u> , as above	very weak
		10	<u>Chert</u> , as above	
4995	5010	100	<u>Limestone</u> , white, III A	
5010	5025	60	<u>Limestone</u> , as above	
		40	<u>Shale</u> , dark gray, partly silty	
5025	5040	100	<u>Limestone</u> , as above, white - light gray	
5040	5075	100	<u>Limestone</u> , as above, fossils	
5075	5080	90	<u>Limestone</u> , as above	
		10	<u>Dolomite</u> , gray - brown, III VFA-B	
5080	5085	60	<u>Limestone</u> , white - light gray, III A	
		40	<u>Dolomite</u> , gray - brown, III VFA-B	
5085	5090	10	<u>Limestone</u> , as above	
		90	<u>Dolomite</u> , as above dark gray - dark brown	
5090	5095	70	<u>Dolomite</u> , as above	
		30	<u>Shale</u> , gray - black, silty, calcareous	
5095	5131	-	Core No. 1	
5131	5160	-	Core No. 2	
5160	5165	100	<u>Limestone</u> , medium brown - gray, IVFA, dolomite	
5165	5175	80	<u>Limestone</u> , as above	
		20	<u>Shale</u> , gray, silty, calcareous w/occ. sand grains	
5175	5185	100	<u>Limestone</u> , as above w/ <u>limestone</u> white - gray III VF-FA, fossiliferous, <u>slight fluorescence and very slight cut fluorescence</u>	
5185	5195	80	<u>Limestone</u> , as above, <u>slight fluorescence, very slight cut fluorescence</u>	
		20	<u>Shale</u> , gray - black, silty, w/occ. sand grains	
5195	5205	100	<u>Limestone</u> , medium brown - gray, IVFA, W/thin <u>shale</u> streaks, gray	
5205	5210	100	<u>Limestone</u> , as above, IVF-FA, slightly dolomite	
5210	5215	80	<u>Limestone</u> , as above	
		20	<u>Shale</u> , medium-dark gray, silty, calcareous	

DITCH SAMPLES

Examined by McLehaney & to 5215 to 5290
Swarbrick

Well North Boundary Butte 2
 Field or Area North Boundary Butte
 not

FROM	TO	%	SHOWS UNDERLINED	SAMPLES/LAGGED
5215	5225	60	<u>Shale</u> , as above	
		40	<u>Limestone</u> , as above, slightly argillaceous, occasional brown chert fragments	
5225	5230	70	<u>Shale</u> , as above	
		30	<u>Limestone</u> , as above, occasional chert fragments	
5230	5240	100	<u>Dolomite</u> , dark brown - black IVFA	
5240	5250	100	<u>Dolomite</u> , as above, w/shale medium - dark gray, silty, slightly calcareous, w/dark brown, opaque chert particles.	
5250	5265	100	<u>Dolomite</u> , as above, w/chert as above <u>trace fluorescence</u> , no cut fluorescence	
5265	5270	100	<u>Limestone</u> , light - medium brown, III VF-FA, argillaceous, <u>trace fluorescence</u> , no cut fluorescence	
5270	5290	80	<u>Limestone</u> , as above	
		20	<u>Shale</u> , black, silty, slightly calcareous	

DITCH SAMPLES

Examined by McLehaney & 5290 to 5420
Swarbrick to

Well North Boundary Butte #2
 Field or Area North Boundary Butte
 Not

FROM	TO	%	SHOWS UNDERLINED	SAMPLES/LAGGED
5290	5295	60 40	Limestone, light to medium brown, III VF-FA Shale, black, silty, slightly calcareous	
5295	5305	100	Limestone, gray to brown, IVFA, <u>trace fluorescence, trace cut fluorescence</u>	
5305	5310	-	No Sample	
5310	5315	100	Limestone, as above, with anhydrite partings	
5315	5320	60 20 20	Limestone, as above Shale, black, silty, calcareous Anhydrite	
5320	5335	25 25 50	Limestone, as above Shale, as above Anhydrite	
5335	5350	30 10 60	Dolomite, dark gray, III VF-FA, argillaceous Shale, as above Anhydrite	
5350	5360	40 60	Dolomite, as above, <u>2-3% fluorescence, trace cut fluorescence (fluorescence poor)</u> Anhydrite, as above, with shale partings	
5360	5365	80 20	Dolomite, as above, <u>2-3% fluorescence, fluorescence poor, cut fluorescence</u> Anhydrite	
5365	5385	90 10	Dolomite, as above, medium gray to brown, III F-MA-B, <u>5-7% fluorescence fluorescence poor, out fluorescence, (when sample dried, no fluorescence, no fluorescence when re-wetted)</u> Anhydrite, as above, with trace brown chert	
5385	5395	50 5 45	Dolomite, as above, III FA, <u>trace fluorescence, no cut fluorescence</u> Anhydrite Shale, black, silty, calcareous	
5395	5400	70 5 25	Dolomite, as above, <u>trace fluorescence, no cut fluorescence</u> Anhydrite Shale, as above	
5400	5420	90 5 5	Dolomite, as above, I-III VF-FA, argillaceous Anhydrite Shale, as above	

DITCH SAMPLES

Examined by McLehaney & 5420 to 5440
Swarbrick 5420 to 5550
Shepard 5440 5550

Well North Boundary Butte #2
 Field or Area North Boundary Butte
Not

FROM	TO	%	SHOWS UNDERLINED	SAMPLES/LAGGED
5420	5425	30	Dolomite, medium gray to brown, I-III VF-FA, argillaceous	
		40	Shale, black, silty, calcareous	
		30	Limestone, medium gray III VF-FA, slightly dolomitic	
5425	5440	100	Dolomite, light to dark brown, III VF-FA, with occasional shale and Anhydrite partings, trace brown chert, scattered fossils.	
5440	5450	70	Dolomite, as above	
		20	Shale, as above	
		10	Anhydrite	
5450	5465	80	Dolomite, medium to light brown gray, III VF-FA, <u>5% dull fluorescence and very pale slow cut fluorescence</u>	
		10	Shale, as above	
		10	Anhydrite	
			<u>minor chert</u>	
5465	5480	90	Dolomite, as above, <u>2% fluorescence and cut fluorescence as above</u>	
		5	Shale, as above	
		5	Anhydrite	
			<u>minor chert</u>	
5480	5490	100	Dolomite, medium to dark brown, III VFA	
5490	5500	80	Dolomite, as above	
		20	Limestone, medium to brown white, IVFA	
			<u>minor chert</u>	
5500	5515	90	Dolomite, as above	
		10	Shale, dark gray	
			<u>minor chert</u>	
5515	5520	70	Dolomite, as above	
		30	Limestone, brown, I-III VF-FA	
5520	5525	100	Limestone, as above	
5525	5530	100	Limestone, medium brown to white, I-III VF-F + B _{tr} + D _{tr} ? (one fragment white Limestone with crystals may indicate D porosity)	
5530	5540	100	Dolomite, brown gray, I-III VF-FA	
			<u>trace chert</u>	
5540	5550	90	Dolomite, as above	
		10	Limestone, white, III FA	

DITCH SAMPLES

Examined by Shepard 5550 to 5750
Swarbrick _____ to _____

Well North Boundary Butte #2
Field or Area North Boundary Butte
Not

FROM	TO	%	SHOWS UNDERLINED	SAMPLES / LAGGED
5550	5555	85 15	Dolomite, as above Limestone, as above	
5555	5570	60 40	Dolomite, as above Limestone, as above	
Cored 5570-5624 see core description				
5624	5630	100	Dolomite, brown gray, I-III VF-FA	
5630	5635		No sample	
5635	5645	100	Dolomite, medium brown to brown gray, III VF-FA, cherty	
5645	5655	100	Dolomite, as above with trace B and C porosity, Anhydrite filled vugs.	
5655	5660	100	Dolomite, light brown gray, III VF-FA	
5660	5685	100	Dolomite, brown gray, I-III VF-FA, abundant milky white chert	
5685	5695	70 30	Dolomite, as above and chert as above Shale, medium gray	
5695	5705	90 10	Dolomite, as above and chert as above Shale, as above	
5705	5710	100	Dolomite, as above, scattered chert	
5710	5720	100	Limestone, light brown gray, I-III VFA, sandy	
5720	5725	100	Limestone, medium brown gray, I-III VF-FA, abundant fossils	
5725	5735	70 30	Limestone, white, III VF-FA, sandy, scattered chert Dolomite, white to dark brown, III VF-MA, <u>trace fluorescence and pale cut fluorescence after crushing</u>	
5735	5745	100	Limestone, white, III F-M + trace B & C porosity, abundant chert, <u>3-5% fluorescence and pale cut fluorescence after crushing</u>	
5745	5750	10 90	Limestone, as above Dolomite, white to brown gray, III FA, <u>3-5% fluorescence and pale cut fluorescence after crushing</u>	

DITCH SAMPLES

Examined by Shepard & Swarbrick
5750, 5875
5750, 5900
Dawsongrove 5875 - 5900

Well North Boundary Butte #2
Field or Area North Boundary Butte
Not

FROM	TO	%	SHOWS UNDERLINED	SAMPLES/LAGGED
5750	5755	100	Dolomite, light brown gray to white, III FA, abundant chert, <u>5% fluorescence and pale cut fluorescence after crushing</u>	
5755	5760	90	Dolomite, as above, <u>3% fluorescence and cut fluorescence as above</u>	
		5	Sandstone, gray, fine to very fine	
		5	Shale, medium gray abundant chert	
5760	5770	100	Limestone, light brown gray, III FA, <u>3% fluorescence and cut fluorescence as above</u>	
Circulation samples at 5770				
			Limestone, as above with trace B porosity, <u>10% fair fluorescence and fair milky cut fluorescence (without crushing or other treatment)</u>	
Cored 5770-5786				
Core #5, 5786-5809				
Core #6, 5809-5831				
5830	5835	20	Limestone, medium brown gray, III A, oolitic	
		80	Shale, green gray, soft, sandy	
5835	5845	20	Limestone, medium to light brown, IVFA	
		80	Shale, green gray, red, purple, soft, sandy, calcareous	
5845	5850		No Sample	
5850	5855	100	Limestone, medium to dark brown, IVFA, fossiliferous	
5855	5870	40	Limestone, as above	
		60	Limestone, medium brown, III VF + B _{tr} + C _{tr} + D? (vugs indicated by fragments with crystals)	
5870	5875	10	Limestone, IIIA, oolitic	
		90	Limestone, medium brown, III VF-FA, slightly dolomitic, cherty	
5875	5885	90	Limestone, light to dark brown, III VF, argillaceous, bioclastic, scattered dense chert, <u>1-2% fluorescence, no cut fluorescence</u>	
		10	Shale, greenish gray, some purple and pink.	
5885	5890	90	Limestone, as above, oolitic, <u>5-10% fluorescence, no cut (mineral fluorescence?)</u>	
		10	Shale, as above, cherty	
5890	5900	70	Limestone, as above, III VF, bioclastic, <u>5-10% fluorescence as above, no cut</u>	
		30	Shale, as above, cherty	

DITCH SAMPLES

Examined by Dawsongrove 5900 to 5925
Swarbrick 5900 to 5925

Well North Boundary Butte #2
 Field or Area North Boundary Butte
 Not

FROM	TO	%	SHOWS UNDERLINED	SAMPLES/ LAGGED
5900	5910	70	Limestone, brown to light grey, III VF-FA, argillaceous, some bioclastic, abundant brown chert.	
		10	Limestone, dark brown, oolitic, bioclastic	
		20	Shale, green, red, purple, grey	
5910	5915	60	Limestone, white to grey, III VF, bioclastic	
		40	Shale, grey, green, maroon, purple, black, brittle, cherty.	
5915	5920	70	Shale, purple, grey, greenish brown	
		30	Limestone, white to grey, III VF, cherty	
5920	5925	60	Limestone, white to dark grey, III VF, bioclastic, some oolite, argillaceous	
		40	Shale, green, purple, grey to brownish grey, cherty	

TOTAL DEPTH 5925'

SHELL OIL COMPANY

WEEK ENDING January 23, 1960CORE FROM 5131 TO 5160CORES EXAMINED BY Swartzbrick, McLehanny

CORE RECORD

AREA OR FIELD WildcatCOMPANY Shell Oil CompanyLEASE AND WELL NO. N. Boundary Butte

NO.	FROM	TO	RECOVERED	FORMATIONAL, STRUCTURAL AND PROBABLE PRODUCTIVITY DESCRIPTION OF CORE	SYMBOL	OBSERVED DIP	CORE INDICATIONS OIL-GAS
							CORE OR DITCH
<u>2</u>	<u>5131</u>	<u>5160</u>	<u>29'</u>				
	5131	5133	2'	<u>Limestone</u> , medium brown-gray, IVFA, slightly argillaceous, calcite healed frags, scattered brachs, <u>slightly fluorescent on fractures.</u>			Spotty Fluorescence on fractures, possibly oil mineral fluorescence
	5133	5135.5	2.5'	<u>Limestone</u> , as above, dolomite, <u>spotty fluorescence on frags.</u> Thin interbedded <u>shale</u> stringers, black, silty, calcareous.			
	5135.5	5138.5	3'	<u>Limestone</u> , as above, <u>spotty fluorescence on frags</u> , scattered brach fragments.			
	5138.5	5140.5	2'	<u>Limestone</u> , as above, dolomite.			
	5140.5	5142.5	2'	<u>Shale</u> , black, silty, calcareous.			
	5142.5	5145.5	3'	<u>Limestone</u> , medium brown-gray, IVFA, calcite healed frags, scattered crinoids, <u>slight fluorescence on frags.</u>			
	5145.5	5150.5	5'	<u>Limestone</u> , as above, slightly dolomite, slightly argillaceous, scattered crinoids, brachs.			
	5150.5	5151.5	1'	<u>Dolomite</u> , medium brown-gray, IVFA, argillaceous.			
	5151.5	5155	3.5'	<u>Shale</u> , black, silty, calcareous, very brittle.			
	5155	5160	5'	<u>Limestone</u> , medium brown-gray IVFA, fossiliferous, calcite healed frags.			

SYMBOLS: C-CLAY OR SHALE (SAND 0-5%). 1-CLAY OR SHALE WITH SAND STREAKS (SAND 5-25%). 2-CLAY OR SHALE AND SAND (SAND 25-60%). 3-SAND WITH SHALE STREAKS (SAND 60-90%). S-SAND (90-100%).

NOTE: SHOW FLUID CONTENT AS IN STANDARD LEGEND.

WEEK ENDING 31 January, 1960

SHELL OIL COMPANY

CORE FROM 5570' TO 5620'

CORE RECORD

AREA OR FIELD North Boundary Butte

COMPANY Shell Oil Company

CORES EXAMINED BY Shepard & Swarbrick

LEASE AND WELL NO. 2

NO.	FROM	TO	RECOVERED	FORMATIONAL, STRUCTURAL AND PROBABLE PRODUCTIVITY DESCRIPTION OF CORE	SYMBOL	OBSERVED DIP	CORE INDICATIONS OIL- GAS
							CORE OR DITCH
3	5570	5624	54'				
	5570	5572	2	Dolomite, medium to dark brown gray, I-III F-M + B _{tr}			None
	5572	5573	1	Dolomite, medium to dark brown gray, I-III VFA, thin streaks black <u>Shale</u>			
	5573	5576	3	Dolomite, medium to dark brown gray, III F-M + B ₂			
	5576	5577	1	Dolomite, medium to dark brown gray, III F-M + B ₂ + C ₃ + D _{tr} , vugs partially filled with anhydrite			
	5577	5578	1	Dolomite, medium to dark brown gray, III F-M + B ₄ + C ₃ + D _{tr} , vugs partially filled with anhydrite			
	5578	5579	1	Dolomite, medium to dark brown gray, III F-M + B ₂ + C ₁			
	5579	5582	3	Dolomite, medium to dark brown gray, III F-M + B ₂ + C _{tr}			
	5582	5583	1	Dolomite, medium to dark brown gray, III VF-F + B _{tr}			
	5583	5584	1	Limestone, light brown gray to white, III VF + B _{tr} , fossiliferous			
	5584	5585	1	Dolomite, medium to brown gray, III VF-F + B _{tr}			
	5585	5588	3	Limestone, medium to brown gray, I-III VF-FA, fossiliferous			
	5588	5589	1	Limestone, medium brown, I-III FA			
	5589	5592	3	Dolomite, medium brown, III F-M + B ₁			
	5592	5593	1	Dolomite, medium to light brown gray, III F-M + B ₂ + C _{tr}			
	5593	5594	1	Dolomite, medium to light brown gray, IVFA			
	5594	5595	1	Dolomite, light brown gray, III VF + B _{tr} , thin shale streaks			
	5595	5596	1	Dolomite, light brown gray, III VFA			
	5596	5597	1	Shale, black, calcareous, silty			
	5597	5599	2	Dolomite, medium brown, III VF-FA			
	5599	5600	1	Dolomite, medium brown, III VF + B _{tr}			
	5600	5603	3	Dolomite, medium brown, III VF-F + B ₂ + C _{tr}			
	5603	5605	2	Dolomite, medium brown, III VF-F + B ₃			
	5605	5606	1	Limestone, light brown gray, IIA, abundant spines			
	5606	5607	1	Dolomite, medium to light brown gray, III VF + B ₂			
	5607	5609	2	Limestone, medium to light brown gray, III VF + B ₃ , fossiliferous			
	5609	5612	3	Limestone, medium to light brown gray, III VFA, fossiliferous			
	5612	5613	1	Dolomite, medium to light brown gray, III VFA			
	5613	5614	1	Limestone, medium to dark brown, III VFA, fossiliferous			
	5614	5615	1	Dolomite, medium to dark brown, III VFA			
	5615	5616	1	Limestone, medium to dark brown, III VFA, fossiliferous			
	5616	5619	3	Dolomite, medium to light brown gray, III VFA			
	5619	5620	1	Dolomite, dark brown, III VFA			

SYMBOLS: C-CLAY OR SHALE (SAND 0-5%). 1-CLAY OR SHALE WITH SAND STREAKS (SAND 5-25%). 2-CLAY OR SHALE AND SAND (SAND 25-60%). 3-SAND WITH SHALE STREAKS (SAND 60-90%). S-SAND (90-100%).

NOTE: SHOW FLUID CONTENT AS IN STANDARD LEGEND.

SHELL OIL COMPANY

WEEK ENDING 31 January 1960

CORE FROM 5620' TO 5822'

CORES EXAMINED BY Shepard & Swarbrick

CORE RECORD

AREA OR FIELD North Boundary Butte

COMPANY Shell Oil Company

LEASE AND WELL NO. 2

NO.	FROM	TO	RECOVERED	FORMATIONAL, STRUCTURAL AND PROBABLE PRODUCTIVITY DESCRIPTION OF CORE	SYMBOL	OBSERVED DIP	CORE INDICATIONS OIL- GAS CORE OR DITCH
3 (con't)	5620	5621	1	Dolomite, medium brown gray, III F-M + B ₂			
	5621	5623	2	Dolomite, medium brown gray, III VFA			
	5623	5624	1	Dolomite, medium brown gray, III VF-F + B _{tr}			
4	5770	5786	15'				
	5770	5775	5	Dolomite, medium to dark gray, III VF-L + B ₅ + C ₆ + D ₆ (vugs to 1/4"), top 3" trace fluorescence and pale cut fluorescence			top 3" see description
	5775	5776.5	1.5	Dolomite, medium to dark gray, III F-M + B ₄ + C ₄ , shaly in part			
	5776.5	5780	3.5	Dolomite, medium brown gray, III VFA			
	5780	5782	2	Limestone, medium brown, III A, abundant fossils			
	5782	5785	3	Dolomite, light to medium gray, III VF-FA			
5	5786	5809	19'				
	5786	5789	3	Dolomite, medium to light gray, III VF-FA			
	5789	5792	3	Sandstone, medium to light gray, very fine, well sorted, subround to subangular, very slightly calcareous			
	5792	5794	2	Dolomite, light to medium gray, III VF-FA, sandy, slightly argillaceous			
	5794	5798	4	Shale, black, silty and sandy, dolomitic, hard			
	5798	5800	2	Dolomite, dark gray, III VF-FA, argillaceous			
	5800	5804	4	Shale, medium to dark gray, silty, slightly dolomitic			
	5804	5805	1	Limestone, medium brown gray, III A, abundant fossils			
6	5809	5832	17'				
	5809	5809.5	0.5	Limestone, medium brown gray, IVF-FA, fossiliferous			None
	5809.5	5810	0.5	Limestone, oolitic, medium to light brown gray, I-III VF-FA			
	5810	5811.5	1.5	Limestone, oolitic, medium to light brown gray, I-III VF-F + C ₅ , bleeding salt water.			
	5811.5	5812	0.5	Limestone, medium brown gray, IVFA, thin (1/4") streak shale, black, silty, calcareous			
	5812	5813	1	Limestone, medium brown gray, III A, oolitic in part, fossiliferous			
	5813	5814	1	Limestone, medium brown gray, IVFA			
	5814	5815	1	Limestone, medium brown gray, I-III VFA, bioclastic			
	5815	5817	2	Limestone, dark brown gray, IVFA, argillaceous, fossiliferous			
	5817	5819	2	Limestone, light to dark brown gray, III A			
	5819	5821	2	Limestone, dark brown gray, III with C _{tr-3} porosity, fossiliferous, bleeding salt water			
	5821	5822	1	Limestone, light gray, III A, fossiliferous			

SYMBOLS: C-CLAY OR SHALE (SAND 0-5%). 1-CLAY OR SHALE WITH SAND STREAKS (SAND 5-25%). 2-CLAY OR SHALE AND SAND (SAND 25-60%). 3-SAND WITH SHALE STREAKS (SAND 60-90%). S-SAND (90-100%).

NOTE: SHOW FLUID CONTENT AS IN STANDARD LEGEND.

SHELL OIL COMPANY

WEEK ENDING 31 January 1960

CORE FROM 5822' TO 5826'

CORES EXAMINED BY Shepard & Swarbrick

CORE RECORD

AREA OR FIELD North Boundary Butte

COMPANY Shell Oil Company

LEASE AND WELL NO. 2

NO.	FROM	TO	RECOVERED	FORMATIONAL, STRUCTURAL AND PROBABLE PRODUCTIVITY DESCRIPTION OF CORE	SYMBOL	OBSERVED DIP	CORE INDICATIONS OIL- GAS
							CORE OR DITCH
6 (cont)							
	5822	5823	1	Limestone, light gray, III FA, dolomitic			
	5823	5824	1	Shale, light gray, soft, mushy, (core badly broken in this interval and may represent some of last recovery)			
	5824	5825	1	Limestone, dark brown gray, I-III VFA, fossiliferous, thin interbedded shale streaks (1/8"), black, silty, calcareous			
	5825	5826	1	Limestone, oolitic, dark brown gray, I-III VFA			

SYMBOLS: C-CLAY OR SHALE (SAND 0-5%). 1-CLAY OR SHALE WITH SAND STREAKS (SAND 5-25%). 2-CLAY OR SHALE AND SAND (SAND 25-60%). 3-SAND WITH SHALE STREAKS (SAND 60-90%). S-SAND (90-100%).

NOTE: SHOW FLUID CONTENT AS IN STANDARD LEGEND.